



**COMMONWEALTH of VIRGINIA**  
**DEPARTMENT OF HEALTH**  
**DIVISION OF SHELLFISH SANITATION**

*109 Governor Street, 6<sup>th</sup> Floor  
P.O. Box 2448  
Richmond, Virginia 23218*

*Ph: 804-864-7487  
Fax: 804-864-7481*

**MONROE BAY AND MATTOX CREEK**  
**Growing Area # 002**  
**Westmoreland County**  
**Shoreline Sanitary Survey**

**Date:** 7 December 2018

**Survey Period:** July 16 – November 5, 2018

**Total Number of Near Shore Samples Collected and Properties Surveyed:** 370

**Surveyed By:** R.M. Thomas, W.A. McCarty III, & W.I. Barrack III

**SECTION A: GENERAL**

This survey area extends from Reference Point 2 at Mimosa Avenue extended near Bluff Point in the Town of Colonial beach to Reference Point 3 at Church Point on the Potomac River, including the Potomac River shoreline between these two points, Monroe Bay (Monroe Creek) and Mattox creek and all of their tributaries.

The topography of the area varies in elevations from 10' or less along the shoreline to a maximum of 76' within the survey boundary. The economy is based on local service businesses, manufacturing, and retail trade. Both Monroe Bay and Mattox Creek have large marinas that serve recreational and small commercial vessels. Several communities in Westmoreland County and the majority of the Town of Colonial Beach are served by a central sewer system.

Meteorological data indicated that the area received a total rainfall of 31.12" for the survey period. A monthly breakdown is as follows:

July 16-31 9.40"    August 7.50"    September 6.30"    October 6.42"    November 1-5 1.50"

At the beginning of the survey, inspectors reviewed the available literature from prior reports, public works and online resources to characterize land use, drainage patterns, and established nearshore seawater stations. Properties identified in the previous survey as having sanitary deficiencies or other environmental significance were revisited to evaluate their current status. All roadways and navigable shoreline within the survey boundary were visually inspected to identify potential pollution sources requiring further investigation.

Nearshore seawater stations were established to survey the full extent of waters beyond routine classification stations. Stations were created in closer proximity to the shoreline and farther upstream than routine stations and are intended to evaluate drainage entry points of

potential pollution sources. Station data were analyzed to compare relative concentrations of fecal indicator bacteria within the waterway to identify potential onshore sources of contamination. Areas with elevated concentrations of fecal indicator bacteria were surveyed onshore using a property by property approach. Surveyors interviewed occupants and examined properties for evidence of pollution sources within the immediate watershed.

Hydrographic data and Ebb current windows are shown in the table below. Maps of the enterococcus sampling are shown at the conclusion of this report.

Rainfall in Inches						
Sample dates	Run #	High Tide	Ebb Current	Previous 24 hours	Previous 48 hours	Previous 72 hours
7/16/18	1	6:08 am	8:58-4:18	0.00	0.00	0.00
7/17/18	1	7:02 am	9:46-5:00	0.28	0.28	0.28
8/1/18	1	7:02 am	9:40-5:00	0.64	1.57	1.98
8/2/18	1	7:44 am	10:16-5:30	0.12	0.76	1.69
8/3/18	1	8:38 am	10:52-6:06	0.38	0.50	1.14
8/14/18	1	5:56 am	8:34-3:42	0.02	0.22	3.55
8/15/18	1	6:44 am	9:22-4:24	0.16	0.18	0.38
8/28/18	2	5:14 am	7:58-3:00	0.00	0.00	0.00
8/30/18	2	6:38 am	9:10-4:00	0.00	0.00	0.00
9/11/18	2	4:50 am	7:28-2:18	0.22	0.26	1.20
9/12/18	2	5:38 am	8:10-3:00	0.00	0.22	0.26
10/17/18	2	10:50 am	1:28-7:30	0.13	0.15	0.31
10/25/18	2	4:32 am	6:52-1:12	0.00	0.00	0.00
11/5/18	2	12:44 am	3:10-9:54	1.31	1.31	1.50

Copies of Bacteriological and Shellfish Closure data are available at the area office for review. This report lists only those properties that have a sanitary deficiency or other environmental significance. "DIRECT" indicates that the significant activity or deficiency has a direct impact on shellfish waters. Data in this report are also made available to local health departments and other agencies to address items that may be out of compliance with their regulatory programs. Copies of VPDES Permits and inspections are available at the Department of Environmental Quality, Tidewater Regional Office (DEQ/TRO).

Copies of the current condemnation notices and maps are available via the Internet at [www.vdh.virginia.gov/shellfish/](http://www.vdh.virginia.gov/shellfish/).

## SECTION B: SEWAGE POLLUTION SOURCES

[illegible]

## SECTION C: NONSEWAGE WASTE SITES

[illegible]

## SECTION D: BOATING ACTIVITY

OBJECT ID	GA #	Field #	Inspection Date	Deficiency or Pollution Type	Latitude	Longitude	Address	Pollutant Remarks	Septic System Type	Structure Type	Contact	Overall Site Remarks	Locality	Boating Activity Type	Number of Wet Slips	NUM BOATS <26'	NUM BOATS >26'	Evidence of Live-Aboards	DSS Staff
39	2	11	11/29/18	BOATING ACTIVITY	38.2307	-76.9634	1787 Castlewood Drive, Colonial Beach, VA 22443	Commercial Marina. Available on site are seasonal slips/moorings, dry storage spaces, fuel, ramp, electricity, repair, water, restrooms, dump station and sewage holding tank pumpout facilities.	NA	Marine	Y	Colonial Beach Yacht Center	Westmoreland	Marina	120	11	49	N	WB
102	2	13	11/29/18	BOATING ACTIVITY	38.2394	-76.9615	1004 Monroe Bay Avenue, Colonial Beach, VA 22443	Commercial Marina. Available on site are seasonal slips/moorings, electricity, water, solid waste containers, restrooms, and portable dump station pumpout facility.	NA	Marine	Y	Parker's Marina	Westmoreland	Marina	38	7	4	N	WB
101	2	14	11/29/18	BOATING ACTIVITY	38.2408	-76.9628	829 Robin Grove Lane, Colonial Beach, VA 22443	Commercial Marina. Available on site are seasonal slips/moorings, dry storage spaces, electricity, repair, water, solid waste containers, restrooms and portable dump station pumpout facilities.	NA	Marine	Y	The Boathouse Marina	Westmoreland	Marina	48	29	15	N	WB
100	2	15	11/29/18	BOATING ACTIVITY	38.2431	-76.9660	554 Lafayette Street, Colonial Beach, VA 22443	Commercial Marina. Available on site are seasonal slips/moorings, ramp, electricity, water, solid waste containers, restrooms and portable dump station pumpout facilities.	NA	Marine	Y	Winkledoodle Point Marina	Westmoreland	Marina	65	24	18	N	WB
99	2	16	11/29/18	BOATING ACTIVITY	38.2431	-76.9666	551 Lafayette Street, Colonial Beach, VA 22443	Available on site are seasonal slips/moorings, ramp, electricity, water, solid waste containers, restrooms, dump station, and sewage holding tank pumpout facilities.	NA	Marine	Y	Monroe Bay Marina	Westmoreland	Marina	92	24	38	N	WB
97	2	17	11/29/18	BOATING ACTIVITY	38.2477	-76.9658	119 Monroe Bay Avenue, Colonial Beach, VA 22443	Commercial Marina. Available on site are seasonal slips/moorings, fuel, ramp, and solid waste containers.	NA	Marine	Y	Tranquil Marina	Westmoreland	Marina	21	3	4	N	WB
96	2	18	11/29/18	BOATING ACTIVITY	38.2483	-76.9659	101 South Monroe Bay Avenue, Colonial Beach, VA 22443	Available on site are seasonal slips/moorings, electricity, water, solid waste containers and restrooms.	NA	Marine	Y	Nightingale Marina & Motel	Westmoreland	Marina	33	5	3	N	WB
95	2	19	11/29/18	BOATING ACTIVITY	38.2489	-76.9660	11 Monroe Bay Avenue, Colonial Beach, VA 22443	37	NA	Marine	Y	Bayside Marina	Westmoreland	Marina	38	13	14	N	WB
89	2	22	11/29/18	BOATING ACTIVITY	38.2335	-76.9697	End of Avalon Drive, Colonial Beach, VA 22443	Available on site are seasonal slips/moorings, ramp, electricity, water, solid waste containers, 1 port-o-john, and portable marine head dump station.	NA	Marine	Y	Potomac-Westmoreland Shores Civic Corp.	Westmoreland	Marina	45	0	0	N	WB
86	2	24	11/29/18	BOATING ACTIVITY	38.2047	-76.9892	582 Burnt House Point, Colonial Beach, VA 22443	Available on site are seasonal slips/moorings, ramp, solid waste containers, and privies (used as a dump station).	NA	Marine	N	Springfield Incorporated	Westmoreland	Marina	23	4	1	N	WB
3003	2	26	11/29/18	BOATING ACTIVITY	38.2049	-76.9800	277 Harbor View Circle, Colonial Beach, VA 22443	Commercial Marina. Available on site are seasonal slips/moorings, fuel, ramp, electricity, water, solid waste containers, restrooms, dump station and sewage holding tank pumpout facilities.	NA	Marine	Y	Harbor View Marina	Westmoreland	Marina	144	29	49	N	WB

## SECTION D: BOATING ACTIVITY

[illegible]

## SECTION E: CONTRIBUTES ANIMAL POLLUTION

[illegible]

## SUMMARY

Growing Area # 002  
MONROE BAY AND MATTOX CREEK  
7 December 2018

### SECTION B: SEWAGE POLLUTION SOURCES

#### 1. SEWAGE TREATMENT FACILITIES

3 – DIRECT – # 5, 6, 7  
0 – INDIRECT – None.  
3 – B.1. TOTAL

**2. ON-SITE SEWAGE DEFICIENCIES** – Correction of the deficiencies in this section is the responsibility of the local health department.

0 – CONTRIBUTES POLLUTION, DIRECT – None.  
0 – CONTRIBUTES POLLUTION, INDIRECT – None.  
0 – CP (Kitchen or Laundry Wastes), DIRECT – None.  
0 – CP (Kitchen or Laundry Wastes), INDIRECT – None.  
0 – NO FACILITIES, DIRECT – None.  
0 – NO FACILITIES, INDIRECT – None.  
0 – B.2 TOTAL

**3. POTENTIAL POLLUTION** – Periodic surveillance of these properties will be maintained to determine any status change.

1 – POTENTIAL POLLUTION – # 38

### SECTION C: NON-SEWAGE WASTE SITES

#### 1. INDUSTRIAL WASTE SITES

0 – DIRECT – None.  
0 – INDIRECT – None.  
0 – C.1. TOTAL

#### 2. SOLID WASTE SITES

0 – DIRECT – None.  
4 – INDIRECT – # 1, 2, 3, 4  
4 – C.2. TOTAL

#### 3. STORMWATER OUTFALLS

1 – DIRECT – # 161  
0 – INDIRECT – None.  
1 – E. TOTAL

### SECTION D: BOATING ACTIVITY

11 – MARINAS – # 11, 13, 14, 15, 16, 17, 18, 19, 22, 24, 26  
5 – OPWBAM – # 20, 21, 23, 27, 28  
2 – UNDER SURVEILLANCE – # 12, 25  
18 – D. TOTAL

### SECTION E: CONTRIBUTES ANIMAL POLLUTION

0 – DIRECT – None.  
3 – INDIRECT – # 8, 9, 10  
3 – E. TOTAL



Virginia Department of Health  
Division of Shellfish Sanitation

Monroe Bay: Monroe  
and Mattox Creeks  
# 002  
Shoreline Sanitary Survey

Westmoreland County

Date: 7 December 2018  
Survey By: R.M. Thomas, W.A. McCarty III, & W.I. Barrack III  
Number of Near Shore Samples Collected  
and Properties Surveyed: 370



0 1000 2000  
Yards

Legend

Seawater Sampling Stations (History)

- Active
- Inactive

- Sewered Areas
- Boat Ramps (DGIF)

Shoreline Survey Deficiencies

- Sewage Treatment Facility - Direct
- Sewage Treatment Facility - Indirect
- Contributes Pollution - Direct
- Contributes Pollution - Indirect
- Contributes Pollution (Kitchen or Laundry wastes) - Direct
- Contributes Pollution (Kitchen or Laundry wastes) - Indirect
- No Facilities - Direct
- No Facilities - Indirect
- Potential Pollution
- Industrial Wastes, Direct
- Industrial Wastes, Indirect
- Solid Waste Dumpsite - Direct
- Solid Waste Dumpsite - Indirect
- Stormwater, Direct
- Stormwater, Indirect
- Boating Activity
- Contributes Animal Pollution - Direct
- Contributes Animal Pollution - Indirect

Geographic coordinates in NAD83 datum;  
shown in degrees, minutes & seconds.



# Near Shore Enterococcus Sampling GA # 002 - Monroe Bay: Monroe & Mattox Creeks

\* Highest value was 8196 collected on August 1, 2018.

#001  
Rosier  
Creek

0 2000 4000  
Feet



## Legend

### Enterococcus spp. (MPN/100ml)

- 0 - 10
- 11 - 100
- 101 - 1000
- 1001 - 10000
- > 10001

#002  
Monroe Bay: Monroe  
and Mattox Creeks

#003  
Potomac River: Mattox  
Creek to Currioman Bay

7 December 2018